### SECTION XVI

MACHINERY AND MECHANICAL APPLIANCES;
ELECTRICAL EQUIPMENT; PARTS THEREOF; SOUND
RECORDERS AND REPRODUCERS, TELEVISION IMAGE
AND SOUND RECORDERS AND REPRODUCERS, AND PARTS
AND ACCESSORIES OF SUCH ARTICLES

XVI-1

### Notes

- 1. This section does not cover:
  - (a) Transmission, conveyor or elevator belts or belting, of plastics of chapter 39, or of vulcanized rubber (heading 4010); or other articles of a kind used in machinery or mechanical or electrical appliances or for other technical uses, of vulcanized rubber other than hard rubber (heading 4016);
  - (b) Articles of leather or of composition leather (heading 4204) or of furskin (heading 4303), of a kind used in machinery or mechanical appliances or for other technical uses;
  - (c) Bobbins, spools, cops, cones, cores, reels or similar supports, of any material (for example, chapter 39, 40, 44 or 48 or section XV);
  - (d) Perforated cards for Jacquard or similar machines (for example, chapter 39 or 48 or section XV);
  - (e) Transmission or conveyor belts of textile material (heading 5910) or other articles of textile material for technical uses (heading 5911);
  - (f) Precious or semiprecious stones (natural, synthetic or reconstructed) of headings 7102 to 7104, or articles wholly of such stones of heading 7116, except unmounted worked sapphires and diamonds for styli (heading 8522);
  - (g) Parts of general use, as defined in note 2 to section XV, of base metal (section XV), or similar goods of plastics (chapter 39);
  - (h) Drill pipe (heading 7304);
  - (ij) Endless belts of metal wire or strip (section XV);
  - (k) Articles of chapter 82 or 83;
  - (1) Articles of section XVII;
  - (m) Articles of chapter 90;
  - (n) Clocks, watches or other articles of chapter 91;
  - (o) Interchangeable tools of heading 8207 or brushes of a kind used as parts of machines of heading 9603; similar interchangeable tools are to be classified according to the constituent material of their working part (for example, in chapter 40, 42, 43, 45 or 59 or heading 6804 or 6909); or
  - (p) Articles of chapter 95.
- 2. Subject to note 1 to this section, note 1 to chapter 84 and to note 1 to chapter 85, parts of machines (not being parts of the articles of heading 8484, 8544, 8545, 8546 or 8547) are to be classified according to the following rules:
  - (a) Parts which are goods included in any of the headings of chapters 84 and 85 (other than headings 8485 and 8548) are in all cases to be classified in their respective headings;
  - (b) Other parts, if suitable for use solely or principally with a particular kind of machine, or with a number of machines of the same heading (including a machine of heading 8479 or 8543) are to be classified with the machines of that kind. However, parts which are equally suitable for use principally with the goods of headings 8517 and 8525 to 8528 are to be classified in heading 8517;
  - (c) All other parts are to be classified in heading 8485 or 8548.
- 3. Unless the context otherwise requires, composite machines consisting of two or more machines fitted together to form a whole and other machines adapted for the purpose of performing two or more complementary or alternative functions are to be classified as if consisting only of that component or as being that machine which performs the principal function.
- 4. Where a machine (including a combination of machines) consists of individual components (whether separate or interconnected by piping, by transmission devices, by electric cables or by other devices) intended to contribute together to a clearly defined function covered by one of the headings in chapter 84 or chapter 85, then the whole falls to be classified in the heading appropriate to that function.
- 5. For the purposes of these notes, the expression "machine" means any machine, machinery, plant, equipment, apparatus or appliance cited in the headings of chapter 84 or 85.

### XVI-2

## Statistical Note

- Provisions for semiconductor manufacturing and testing machines and apparatus cover products for the growth and processing of semiconductor materials, such as silicon and gallium arsenide, the processing of such materials into semiconductor devices and the testing of such devices (in general the testing equipment, as well as some of the processing equipment, is classified in chapter 90). More specifically the goods include the following:
  - (a) Wafer manufacturing equipment:
    - (i) Crystal growers & pullers. used to produce extremely pure monocrystalline semiconductor boules from which wafers can be sliced. Most common methods employed in these crystal growers and pullers are the Czochralski and float zone methods.
    - (ii) Wafer preparation equipment:
      - (A) Crystal grinders used to grind the crystal boule to precise diameter required for wafers and to grind the flats on the boule to indicate the conductivity type and resistivity of the crystal.
      - (B) Wafer slicing saws used to slice wafers from a boule of monocrystalline semiconductor material.
      - (C) Wafer grinders, lappers and polishers used to prepare the semiconductor wafer for the fabrication process. This involves bringing the wafer within dimensional tolerances. Especially critical is the flatness of its surface.
  - (b) Mask fabrication and repair equipment -
    - (i) Fabrication equipment used to transfer design patterns to a mask or reticle, this equipment generally utilizes optical, electron beam or X-rays to write circuit patterns on photoresist coated substrates. After development, these substrates become the mask or reticle for wafer fabrication.
    - (ii) Repair equipment this equipment generally utilizes focused ion beams or laser beams. They are used directly on the mask or reticle to remove chrome.
  - (c) Wafer fabrication equipment:
    - (i) Film formation equipment used to apply or produce various films on the surface of the wafer during the fabrication process. These films serve as conductors, insulators and semiconductors on the finished device. They may include oxides and nitrides of the substrate surface, metals, and epitaxial layers. The processes and equipments listed below are not necessarily limited to the generation of a particular type of film.
      - (A) Oxidation furnaces used to form a "film" of oxide on the wafer. The oxide is formed by the chemical reaction of the top molecular layers of the wafer with the applied oxygen or steam under heat.
      - (B) Chemical Vapor Deposition (CVD) equipment used to deposit various types of films which are obtained by combining the appropriate gases in a reactant chamber at elevated temperatures. This constitutes a thermochemical vapor-phase reaction. Operations may take place at atmospheric or low pressure (LPCVD) and may use plasma enhancement (PECVD).
      - (C) Physical Vapor Deposition (PVD) equipment used to deposit various types of films which are obtained by vaporizing a solid.
        - (1) Evaporation equipment in which the film is generated by heating the source material.
        - (2) Sputtering equipment in which the film is generated by bombarding the source material (target) with ions.
      - (D) Molecular Beam Epitaxy (MBE) equipment used to grow epitaxial layers on a heated monocrystalline substrate in an ultrahigh vacuum using beams of molecules. The process is similar to PVD."
    - (ii) Doping equipment which is used to introduce dopants into the wafer surface in order to modify the conductivity or other characteristics of a semiconductor layer:
      - (A) Thermal diffusion equipment in which the dopants introduced into the surface of the wafer by the application of gases under high temperatures.
      - (B) Ion Implantation in which the dopants are "driven" into the crystal lattice structure of the surface of the wafer in the form a beam of accelerated ions.
      - (C) Annealing furnaces which are used to repair the crystal lattice structures of the wafer damaged by ion implantation
    - (iii) Etching and stripping equipment used for etching or cleaning surfaces of the wafers.
      - (A) Wet etching equipment in which chemical etching materials are applied by spraying or immersion. Spray etchers provide more uniform results than bath etchers, since they perform the operation on one wafer at a time.
      - (B) Dry plasma etching in which etching materials are presented as gases within a plasma energy field, providing an anisotropic etch profile.

- (C) Ion beam milling equipment in which ionized gas atoms are accelerated toward the wafer surface. The impact results in the top layer being physically removed from the surface.
- (D) Strippers or ashers using techniques similar to etching this apparatus removes the spent photoresist from the surface of the wafer after it has served its purpose as a "stencil". This equipment is also used for removal of nitrides, oxides, and polysilicon, with an isotropic etch profile.
- (iv) Lithography equipment used to transfer the circuit designs to the photoresist coated surface of the semiconductor wafer.
  - (A) Equipment for coating wafers with photoresist these include the photoresist spinners which are used to apply liquid photoresist evenly over the surface of the wafer.
  - (B) Equipment for exposing the photoresist coated wafer with the circuit design (or a part thereof):
    - (1) Using a mask or reticle and exposing the photoresist to light (generally ultraviolet) or, in some instances, X-rays:
      - (a) Contact printers where the mask or reticle is in contact with the wafer during exposure.
      - (b) Proximity aligners similar to contact aligners except actual contact doesn't take place between the mask or reticle and the wafer.
      - (c) Scanning aligners which use projection techniques to expose a continuously moving slit across the mask and wafer.
      - (d) Step and repeat aligners which use projection techniques to expose the wafer a portion at a time. Exposure can be by reduction from the mask to the wafer or 1:1. Enhancements include the use of an excimer laser.
    - (2) Direct write on wafer equipment these apparatus operate with no mask or reticle. They use a computer controlled "writing beam" (such as, an electron beam (E-beam), ion beam or laser) to "draw" the circuit design directly on the photoresist coated wafer.
  - (C) Equipment for developing exposed wafers these include chemical baths similar to those used in photographic laboratory applications
- (d) Assembly equipment
  - (i) Dicing equipment these include sawing machines and scribing machines (including laser scribers) and dicing accessories such as wafer breaking equipment.
  - (ii) Die bonding equipment which installs the die to the package by soldering or gluing
  - (iii) Wire bonding equipment used for attaching thin wires or tapes (usually of gold, aluminum or copper) from the die bonding pads to the corresponding pads on the package.
  - (iv) Packaging equipment which are used to encapsulate or package a semiconductor device. They include sealing furnaces, lid welders, plastic encapsulation presses, lead trim and form equipment, package deflashers, and tin dip and solder plate equipment.
- (e) Testing and inspection equipment
  - (i) Optical inspection equipment These include equipment that "examines" portions of the wafer surface and compares them either to a standard pattern or to other portions of the wafer surface.
  - (ii) Electrical testing equipment These include computer controlled systems that test the functions and electrical specifications of semiconductor devices through the application and detection of electrical signals or patterns. Testing is performed on both unencapsulated dice and packaged integrated circuits.

### CHAPTER 84

# NUCLEAR REACTORS, BOILERS, MACHINERY AND MECHANICAL APPLIANCES; PARTS THEREOF

XVI 84-1

## Notes

- 1. This chapter does not cover:
  - (a) Millstones, grindstones or other articles of chapter 68;
  - (b) Appliances or machinery (for example, pumps) or parts thereof, of ceramic material (chapter 69);
  - (c) Laboratory glassware (heading 7017); machinery, appliances or other articles for technical uses or parts thereof, of glass (heading 7019 or 7020);
  - (d) Articles of heading 7321 or 7322 or similar articles of other base metals (chapters 74 to 76 or 78 to 81);
  - (e) Electromechanical tools for working in the hand, of heading 8508, or electromechanical domestic appliances of heading 8509; or
  - (f) Hand-operated mechanical floor sweepers, not motorized (heading 9603).
- 2. Subject to the operation of note 3 to section XVI, a machine or appliance which answers to a description in one or more of the headings 8401 to 8424 and at the same time to a description in one or more of the headings 8425 to 8480 is to be classified under the appropriate heading of the former group and not the latter.

Heading 8419 does not, however, cover:

- (a) Germination plant, incubators or brooders (heading 8436);
- (b) Grain-dampening machines (heading 8437);
- (c) Diffusing apparatus for sugar juice extraction (heading 8438);
- (d) Machinery for the heat treatment of textile yarns, fabrics or made up textile articles (heading 8451); or
- (e) Machinery or plant, designed for mechanical operation, in which a change of temperature, even if necessary, is subsidiary.

Heading 8422 does not cover:

- (a) Sewing machines for closing bags or similar containers (heading 8452); or
- (b) Office machinery of heading 8472.
- 3. A machine tool for working any material which answers to a description in heading 8456 and at the same time to a description in heading 8457, 8458, 8459, 8460, 8461, 8464 or 8465 is to be classified in heading 8456.
- 4. Heading 8457 applies only to machine tools for working metal (other than lathes) which can carry out different types of machining operations either:
  - (a) By automatic tool change from a magazine or the like in conformity with a machining program (machining centers);
  - (b) By the automatic use, simultaneously or sequentially, of different unit heads working on a fixed-position workpiece (unit construction machines, single station); or
  - (c) By the automatic transfer of the workpiece to different unit heads (multistation transfer machines).

### 84-2

- 5. (A) For purposes of heading 8471, the expression "automatic data processing machines" means:
  - (a) Digital machines, capable of (1) storing the processing program or programs and at least the data immediately necessary for execution of the program; (2) being freely programmed in accordance with the requirements of the user; (3) performing arithmetical computations specified by the user; and, (4) executing, without human intervention, a processing program which requires them to modify their execution, by logical decision during the processing run;
  - (b) Analog machines capable of simulating mathematical models and comprising at least: analog elements, control elements and programming elements;
  - (c) Hybrid machines consisting of either a digital machine with analog elements or an analog machine with digital
  - (B) Automatic data processing machines may be in the form of systems consisting of a variable number of separately housed units. A unit is to be regarded as being a part of the complete system if it meets all of the following conditions:
    - (a) It is connectable to the central processing unit either directly or through one or more other units; and
    - (b) It is specifically designed as part of such a system (it must, in particular, unless it is a power supply unit, be able to accept or deliver data in a form (code or signals) which can be used by the system).

Such units entered separately are also to be classified in heading 8471.

Heading 8471 does not cover machines incorporating or working in conjunction with an automatic data processing machine and performing a specific function. Such machines are classified in the headings appropriate to their respective functions or, failing that, in residual headings.

- 6. Heading 8482 applies, <u>inter alia</u>, to polished steel balls, the maximum and minimum diameters of which do not differ from the nominal diameter by more than 1 percent or by more than 0.05 mm, whichever is less. Other steel balls are to be classified under heading 7326.
- 7. A machine which is used for more than one purpose is, for the purposes of classification, to be treated as if its principal purpose were its sole purpose.

Subject to note 2 to this chapter and note 3 to section XVI, a machine the principal purpose of which is not described in any heading or for which no one purpose is the principal purpose is, unless the context otherwise requires, to be classified in heading 8479. Heading 8479 also covers machines for making rope or cable (for example, stranding, twisting or cabling machines) from metal wire, textile yarn or any other material or from a combination of such materials.

### Subheading Note

 Subheading 8482.40 applies only to bearings with cylindrical rollers of a uniform diameter not exceeding 5 mm and having a length which is at least three times the diameter. The ends of the rollers may be rounded.

# Additional U.S. Note

1. For the purposes of subheadings 8479.89.10, 8479.89.60, 8479.89.90, 8479.90.40 and 8479.90.80, the rate of duty "Free (C)" appearing in the column entitled "1-Special" applies only to the following articles and their parts: nonelectric starter motors; propeller regulators, nonelectric; servo-mechanisms, nonelectric; windshield wipers, nonelectric; hydropneumatic accumulators; pneumatic starters for turbojets, turbopropellers, or other gas turbines; toilet units specially designed for aircraft; mechanical actuators for thrust reversers; air humidifiers and dehumidifiers.

8401		Nuclear reactors; fuel elements (cartridges), non-irradiated, for nuclear reactors; machinery and apparatus for isotopic separation; parts			
8401.10.00 8401.20.00	00	thereof: Nuclear reactors Machinery and apparatus for isotopic	t	6.5%	Free (A,CA,E,IL,J) 45%
0401.20.00	00	separation, and parts thereof	t	3.9%	Free (A,CA,E,IL,J) 35%
8401.30.00	00	Fuel elements (cartridges), non-irradiated, and parts thereof	х	6.5%	Free (A,CA,E,IL,J) 45%
8401.40.00	00	Parts of nuclear reactors	t	6.5%	Free (A,CA,E,IL,J) 45%
8402		Steam or other vapor generating boilers (other than central heating hot water boilers capable also of producing low pressure steam); superheated water boilers; parts thereof:  Steam or other vapor generating boilers:			
8402.11.00	00	Watertube boilers with a steam production exceeding 45 t per hour	t	6.5%	Free (A,CA,E,IL,J) 45%
8402.12.00	00	Watertube boilers with a steam production not exceeding 45 t per hour	t	6.5%	Free (A,CA,E,IL,J) 45%
8402.19.00	00	Other vapor generating boilers,	+	6.5%	Proo (7 C7 P TI T) 45%
8402.20.00	00	including hybrid boilers Super-heated water boilers	t	6.5%	Free (A,CA,E,IL,J) 45% Free (A*,CA,E,IL, 45% J)
8402.90.00	10 90	Parts Heat exchangers Other	t	6.5%	Free (A,CA,E,IL,J) 45%
8403		Central heating boilers (other than those of heading 8402) and parts thereof:			
8403.10.00 8403.90.00	00	Central heating boilers (other than those of heading 8402) and parts thereof: Boilers		4.2% 4.2%	Free (A,CA,E,IL,J) 45% Free (A,CA,E,IL,J) 45%
8403.10.00 8403.90.00 8404		heading 8402) and parts thereof: Boilers			
8403.10.00 8403.90.00	10	heading 8402) and parts thereof: Boilers Parts  Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, superheaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof: Auxiliary plant for use with boilers of heading 8402 or 8403 Economizers.	x		
8403.10.00 8403.90.00 8404	00	heading 8402) and parts thereof: Boilers Parts  Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, superheaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof: Auxiliary plant for use with boilers of heading 8402 or 8403 Economizers Other Condensers for steam or other vapor power	x t	4.2% 7%	Free (A,CA,E,IL,J) 45% Free (A,CA,E,IL,J) 45%
8403.10.00 8403.90.00 8404	10 50	heading 8402) and parts thereof: Boilers Parts.  Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, superheaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof: Auxiliary plant for use with boilers of heading 8402 or 8403.  Economizers. Other.	 t t	4.2%	Free (A,CA,E,IL,J) 45%
8403.10.00 8403.90.00 8404 8404.10.00	10 50 00	heading 8402) and parts thereof: Boilers Parts  Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, superheaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof: Auxiliary plant for use with boilers of heading 8402 or 8403 Economizers Other Condensers for steam or other vapor power units	 t t	4.2% 7%	Free (A,CA,E,IL,J) 45%  Free (A,CA,E,IL,J) 45%  Free (A,CA,E,IL,J) 45%
8403.10.00 8403.90.00 8404 8404.10.00 8404.20.00 8404.90.00	10 50 00	heading 8402) and parts thereof: Boilers. Parts.  Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, superheaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof: Auxiliary plant for use with boilers of heading 8402 or 8403.  Economizers. Other. Condensers for steam or other vapor power units.  Parts.	 t t t	4.2% 7%	Free (A,CA,E,IL,J) 45%  Free (A,CA,E,IL,J) 45%  Free (A,CA,E,IL,J) 45%
8403.10.00 8403.90.00 8404 8404.10.00 8404.20.00 8404.90.00 8405	10 50 00	heading 8402) and parts thereof: Boilers. Parts.  Auxiliary plant for use with boilers of heading 8402 or 8403 (for example, economizers, superheaters, soot removers, gas recoverers); condensers for steam or other vapor power units; parts thereof: Auxiliary plant for use with boilers of heading 8402 or 8403. Economizers. Other. Condensers for steam or other vapor power units.  Parts.  Producer gas or water gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers; parts thereof: Producer gas or water gas generators, with or without their purifiers; acetylene gas generators, with or without their purifiers; acetylene gas generators and similar water process gas generators, with or without their purifiers; acetylene gas generators, with or without their	 t t t x	4.2% 7% 7%	Free (A,CA,E,IL,J) 45%  Free (A,CA,E,IL,J) 45%  Free (A,CA,E,IL,J) 45%  Free (A,CA,E,IL,J) 45%

8406		Steam turbines and other vapor turbines, and parts thereof:  Turbines:					
8406.11		For marine propulsion:					
8406.11.10	00	Steam turbines		7.5%		(A,CA,E,IL,J	
8406.11.90	00	Other	No	4.5%	Free	(A,CA,E,IL,J	) 27.5%
8406.19		Other:			_	,	
8406.19.10		Steam turbines Stationary steam turbines, condensing type:		7.5%	Free	(A,CA,E,IL,J	) 20%
	10	Not exceeding 7,460 kW	No				
	20	Exceeding 7,460 kW					
	20	Other:	1.0.				
	50	Not exceeding 7,460 kW	No.				
	70	Exceeding 7,460 kW	No.				
8406.19.90	0.0	Other		4.5%	Free	(A,CA,E,IL,J	27.5%
8406.90		Parts:					
8406.90.10		Of steam turbines		7.5%	Free	(A,CA,E,IL,J	) 20%
	40	Rotors or spindles and rotor or					
		spindle assemblies	No.				
	80	Other					
8406.90.90	0 0	Other	Х	4.5%	Free	(A,CA,E,IL,J	) 27.5%
8407		Spark-ignition reciprocating or rotary					
		internal combustion piston engines:					
8407.10.00		Aircraft engines		Free			35%
		For use in civil aircraft:					
		New:					
	20	Less than 373 kW					
	40	373 kW or over					
	60 90	Used or rebuilt					
	90	Marine propulsion engines:	NO.				
8407.21.00		Outboard motors		Free			35%
0407.21.00	40	Less than 22.38 kW		rice			22.0
	80	Other					
8407.29.00	00	Other		Free			35%
	10	Inboard engines with outboard					
		drive	No.				
		Inboard engines with inboard					
		drive:					
	20	Less than 746 W	No.				
	30	746 W or greater, but not					
		exceeding 18.65 kW	No.				
	40	Exceeding 18.65 kW	No.				
		Reciprocating piston engines of a kind used					
0407 31 00		for the propulsion of vehicles of chapter 87:					
8407.31.00		Of a cylinder capacity not exceeding		Froo			35%
	40	50 cc Less than 746 W		Free			356
	80	Other					
8407.32	00	Of a cylinder capacity exceeding 50 cc	NO.				
0107.52		but not exceeding 250 cc:					
8407.32.10	0.0	To be installed in tractors suit-					
		able for agricultural use	No	Free			Free
		ğ .					
8407.32.20		To be installed in vehicles of sub-					
		heading 8701.20, or heading 8702,					
		8703 or 8704		3.1% <u>1</u> /		(A,B,E,IL,J)	35%
					1.5%	(CA) <u>2</u> /	
	40	Used or rebuilt					
0400 00 00	80	Other					250
8407.32.90	4.0	Other		Free			35%
	40 80	Not exceeding 18.65 kW					
	00	Exceeding 18.65 kW	INO.				

 $<sup>\</sup>underline{1}$ / See heading 9902.84.07.  $\underline{2}$ / See subheading 9905.00.00.

8407 (con.)		Spark-ignition reciprocating or rotary internal combustion piston engines (con.):  Reciprocating piston engines of a kind used for the propulsion of vehicles of					
8407.33		<pre>chapter 87 (con.):</pre>					
8407.33.10	3.0	To be installed in tractors suit- able for agricultural use		Free			Free
	60	Not exceeding 37.3 kW Exceeding 37.3 kW: Air-cooled					
8407.33.20	90	Other To be installed in vehicles of sub- heading 8701.20, or heading 8702, 8703 or 8704		3.1% 1/	Free	(A,B,E,IL,J)	35%
	40	Used or rebuilt	No.	3.10 <u>1</u> /		(CA) <u>2</u> /	330
8407.33.90	80 40	OtherOther		Free			35%
8407.34	80	Exceeding 18.65 kW Of a cylinder capacity exceeding					
8407.34.10		1,000 cc:  To be installed in tractors suit- able for agricultural use		Free			Free
	30	Not exceeding 37.3 kW:		riee			rice
8407.34.20	60 90	Air-cooled					
		heading 8701.20, or heading 8702, 8703 or 8704		3.1%		(A*,B,E,IL,J)	35%
	40 80	Used or rebuilt			1.5%	(CA) <u>2</u> /	
8407.34.90 8407.90	00	Other engines:	No	Free			35%
8407.90.10		To be installed in agricultural or horticultural machinery or equipment Not exceeding 37.3 kW:		Free			Free
	10 20	Less than 4,476 W					
	60 80	Air-cooledOther:					
8407.90.90	10	Other		Free			35%
	20 40	Less than 746 W					
	60	4,476 W or greater but not exceeding 18.65 kW	No.				
	80	Exceeding 18.65 kW	No.				

 $<sup>\</sup>underline{1}$ / See heading 9902.84.07.  $\underline{2}$ / See subheading 9905.00.00.

8408		Compression-ignition internal combustion piston					
		engines (diesel or semi-diesel engines):					
8408.10.00	05	Marine propulsion engines Not exceeding 111.9 kW		3.7%	Free	(A,CA,E,IL,J)	) 35%
	15	Exceeding 111.9 kW but not exceeding 149.2 kW	No.				
	20	Exceeding 149.2 kW but not exceeding 223.8 kW	No.				
	30	Exceeding 223.8 kW but not exceeding 373 kW	No.				
	40	Exceeding 373 kW but not exceeding 746 kW	No.				
8408.20	50	Exceeding 746 kW Engines of a kind used for the propulsion	No.				
8408.20.10		of vehicles of chapter 87:  To be installed in tractors suitable					
0400.20.10		for agricultural use		Free			Free
	40	Not exceeding 37.3 kW					
0400 00 00	80 00	Exceeding 37.3 kW	No.				
8408.20.20	00	To be installed in vehicles of subheading 8701.20, or heading					
		8702, 8703 or 8704	No	3.7%	Free	(A*,B,CA,E,	35%
						IL,J)	
8408.20.90	00	Other	No	3.7%	Free	(A*,CA,E,IL, J)	35%
8408.90 8408.90.10		Other engines:  To be installed in agricultural or					
0400.90.10		horticultural machinery or equipment		Free			Free
	40	Not exceeding 37.3 kW		1100			1100
	80	Exceeding 37.3 kW					
8408.90.90		Other		3.7%	Free	(A,B,C,CA, E,IL,J)	35%
	10	Not exceeding 149.2 kW	No.				
	20	Exceeding 149.2 kW but not exceeding 373 kW	No				
		exceeding 3/3 kw	NO.				
	30	Exceeding 373 kW but not					
		exceeding 746 kW	No.				
	40	Exceeding 746 kW but not					
		exceeding 1,119 kW	No.				
	50	Exceeding 1,119 kW	No.				

8409 8409.10.00	40	Parts suitable for use solely or principally with the engines of heading 8407 or 8408:  For aircraft engines	kg	Free			35%
	80	Other:	kg				
8409.91		Suitable for use solely or principally with spark-ignition internal combustion piston engines (including rotary engines)	:				
8409.91.10		Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in					
	40	finishing machinery		Free			10%
	60 80	For marine propulsion engines	kg				
8409.91.91		Other: For vehicles of subheading 8701.20, or heading 8702, 8703	5				
		or 8704		3.1%		(A*,B,E,IL,J) (CA) 1/	35%
	10	Connecting rods	kg			· · · <u>-</u>	
8409.91.92	90	Other		3.1%	Free	(A,CA,E,IL,J)	35%
	90	Other					
8409.91.99		Other		3.1%		(A,E,IL,J) (CA) <u>1</u> /	35%
	10	Connecting rods	kg			_	
8409.99	90	Other:	kg				
8409.99.10		Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit location in finishing medianer.		Froo			10%
	40	finishing machinery		riee			10.9
	60 80	For marine propulsion engines OtherOther:					
8409.99.91		For vehicles of subheading 8701.20, or heading 8702, 8703 or 8704		3.7%	Free	(A,B,CA,E,IL,	35%
	10	Connecting rods				J)	
0400 00 00	90	Other		2 80		(3 G3 E T1 T)	250
8409.99.92	10	For marine propulsion engines Connecting rods		3.7%	Free	(A,CA,E,IL,J)	35%
8409.99.99	90	OtherOther	kg	3.7%	Free	(A*,CA,E,IL,	35%
	10	Connecting rods	No. v			J)	
	90	Other	kg kg				
8410		Hydraulic turbines, water wheels and regulators therefor; parts thereof:					
8410.11.00 8410.12.00	00	Hydraulic turbines and water wheels:  Of a power not exceeding 1,000 kW  Of a power exceeding 1,000 kW but not	No	7.5%	Free	(A,CA,E,IL,J)	27.5%
3110.12.00		exceeding 10,000 kW	No	7.5%	Free	(A,CA,E,IL,J)	27.5%
8410.13.00 8410.90.00	00	Of a power exceeding 10,000 kW Parts, including regulators		7.5% 7.5%		(A,CA,E,IL,J) (A,CA,E,IL,J)	

 $<sup>\</sup>underline{1}$ / See subheading 9905.00.00.

8411		Turbojets, turbopropellers and other gas turbines, and parts thereof: Turbojets:			
8411.11 8411.11.40	00	Of a thrust not exceeding 25 kN: Aircraft turbines	No	5%	Free (A,C,CA,E, 35%
8411.11.80 8411.12	00	Other	No	5%	<pre>IL,J) Free (A,CA,E,IL,J) 35%</pre>
8411.12.40	00	Aircraft turbines	No	5%	Free (A,C,CA,E, 35% IL,J)
8411.12.80	00	Other Turbopropellers:	No	5%	Free (A,CA,E,IL,J) 35%
8411.21 8411.21.40	00	Of a power not exceeding 1,100 kW: Aircraft turbines	No	5%	Free (A,C,CA,E, 35% IL,J)
8411.21.80 8411.22	00	Other	No	5%	Free (A,CA,E,IL,J) 35%
8411.22.40	00	Aircraft turbines	No	5%	Free (A,C,CA,E, 35% IL.J)
8411.22.80	00	OtherOther gas turbines:	No	5%	Free (A,CA,E,IL,J) 35%
8411.81 8411.81.40	00	Of a power not exceeding 5,000 kW: Aircraft turbines	No	5%	Free (A,C,CA,E, 35%
8411.81.80	00	Other		5%	<pre>IL,J) Free (A,CA,E,IL,J) 35%</pre>
8411.82 8411.82.40	00	Of a power exceeding 5,000 kW: Aircraft turbines	No	5%	Free (A,C,CA,E, 35%
8411.82.80	00	Other	No	5%	<pre>IL,J) Free (A,CA,E,IL,J) 35%</pre>
8411.91 8411.91.10		Parts: Of turbojets or turbopropellers: Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit			
	40	location in finishing machinery Parts of nonaircraft turbines Parts of aircraft turbines:		Free	10%
	60	For use in civil aircraft	kg		
8411.91.90	90	Other		2 7%	Free (A,C,CA,E, 35%
0411.91.90	40	Parts of nonaircraft turbines		3.7%	IL,J)
8411.99	80	Parts of monaritate turbines Other:			
8411.99.10		Cast-iron parts, not advanced beyond cleaning, and machined only for the removal of fins, gates, sprues and risers or to permit			
	10	location in finishing machinery Parts of nonaircraft gas turbines		Free	10%
	40	Parts of aircraft gas turbines: For use in civil aircraft	Х		
8411.99.90	80	Other		2 7%	Free (A.C.CA.E. 35%
0411.99.90	0	Other  Parts of nonaircraft gas turbines:		J. / To	Free (A,C,CA,E, 35% IL,J)
	30	Rotors or spindles and rotor or spindle assemblies	No.		
	60 90	Other Parts of aircraft gas	X		
	90	rarts of aircraft gas turbines	X		

8412 8412.10.00		Other engines and motors, and parts thereof: Reaction engines other than turbojets		5%	Froo	(A,B,C,CA,E,	25%
6412.10.00	10			56	riee	IL,J)	33%
	90	Missile and rocket engines Other					
8412.21.00		Hydraulic power engines and motors: Linear acting (cylinders)		3.4%	Free	(A,B,C,CA,E, IL,J)	27.5%
	15 30	Tie-rod type				11,07	
		Weld fused type Other:					
	45 60	TelescopingRodless	No.				
8412.29	75	Other:	No.				
8412.29.40	00	Hydrojet engines for marine propulsion	No	2.4%	Free	(A,CA,E,IL,J	30%
8412.29.80		Other		3.4%	Free	(A,B,C,CA,E,	27.5%
		Unlimited rotary acting:				IL,J)	
	15	Gear type					
	30 45	Radial piston type Axial piston type	No.				
	60 75	Other					
8412.31.00		Pneumatic power engines and motors: Linear acting (cylinders)		3.4%	Free	(A,B,C,CA,	27.5%
	40	Tie-rod type				E,IL,J)	
0410 20 00	80	Other	No.	2 40		(2 D G G2	05 50
8412.39.00		Other		3.4%	Free	(A,B,C,CA, E,IL,J)	27.5%
8412.80	40 80	Unlimited rotary acting Other					
8412.80.10	00	Other engines and motors: Spring-operated and weight-operated			_		
		motors		4%	Free	(A,C,CA,E, IL,J)	35%
8412.80.90	00	Other	X	3.4%	Free	(A,C,CA,E,	27.5%
8412.90		Parts:				IL,J)	
8412.90.10	00	Of hydrojet engines for marine propulsion	x	2.4%	Free	(A,CA,E,IL,J	) 30%
8412.90.90		Other		3.4%		(A, B, C, CA, E,	
0412.50.50				3.40	rice	IL,J)	27.30
		Of hydraulic power engines and motors:					
	05	Of linear acting engines and motors	х				
	15	Other Of pneumatic power engines	Х				
	25	and motors: Of linear acting engines					
		and motors	X				
	35 50	Other Of reaction engines other than	X				
	50	turbojets	X				
	80	Other	X				

8413 8413.11.00	0.0	Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; part thereof:  Pumps fitted or designed to be fitted with a measuring device:  Pumps for dispensing fuel or lubricants,					
6413.11.00	00	of the type used in filling-stations or in garages	No	3%	Free	(A,CA,E,IL,J)	35%
8413.19.00	00	Other	No	3%	Free	(A,B,C,CA, E,IL,J)	35%
8413.20.00	00	Hand pumps, other than those of subheading 8413.11 or 8413.19	No	3%	Free	(A,C,CA,E,IL,	, 35%
8413.30		Fuel, lubricating or cooling medium pumps for internal combustion piston engines:				J)	
8413.30.10	00	Fuel-injection pumps for compression-ignition engines	No	2.5%	Free	(A,B,C,CA,E IL,J)	35%
8413.30.90		Other		3%	Free	(A,B,C,CA,E IL,J)	35%
	30 60 90	Fuel pumps. Lubricating pumps. Other.	No.				
8413.40.00 8413.50.00	00	Concrete pumps Other reciprocating positive displacement	No	3%		(A,CA,E,IL,J)	
		pumps		3%	Free	(A,B,C,CA,E IL,J)	35%
	10 50	Oil well and oil field pumps Diaphragm pumps Other:					
	70 80	Hydraulic fluid power pumps: Radial piston type Other					
8413.60.00	90	OtherOther rotary positive displacement pumps		3%	Free	(A,B,C,CA, E,IL,J)	35%
		Hydraulic fluid power pumps:				E, 1E, 0)	
	20 30	Vane typeGear type					
	40	Other					
	50	Oil well and oil field pumps					
	70 90	Roller pumpsOther					
	20	other	1.0.				

8413 (con.)		Pumps for liquids, whether or not fitted with a measuring device; liquid elevators; part thereof (con.):					
8413.70 8413.70.10	00	Other centrifugal pumps: Stock pumps imported for use with ma-					
		chines for making cellulosic pulp, paper or paperboard	No	Free			35%
8413.70.20		Other		3%	Free	(A,B,C,CA,E IL,J)	35%
	04	Submersible pumps Other: Single-stage, single-suction,	No.			12,0,	
	05	close-coupled: With discharge outlet under 5.08 cm in					
		diameter	No.				
	15	With discharge outlet 5.08 cm or over in diameter	No.				
	22	Single-stage, single-suction, frame-mounted: With discharge outlet					
		under 7.6 cm in diameter	No.				
	25	With discharge outlet 7.6 cm or over in diameter	No.				
	30 40	Single-stage, double-suction Multi-stage, single- or double-suction					
	90	Other					
8413.81.00	50	Other pumps; liquid elevators: Pumps		3%	Free	(A,B,C,CA,E	35%
	20	Turbine pumps				IL,J)	
	30	Household water systems, self- contained; and windmill pumps					
8413.82.00	40 00	OtherLiquid elevators		3%	Free	(A,CA,E,IL,J	) 35%
8413.91		Parts: Of pumps:					
8413.91.10	00	Of fuel-injection pumps for compression-ignition engines	x	2.5%	Free	(A,B,C,CA,E IL,J)	35%
8413.91.20	00	Of stock pumps imported for use with machines for making cellulosic				12/0/	
		pulp, paper or paperboard	X	Free			35%
8413.91.90		Other		3%	Free	(A,B,C,CA,E IL,J)	35%
	10 50	Of subheading 8413.30.90 Of hydraulic fluid power pumps					
		Other:					
	70 80	Mechanical seals Other					
8413.92.00	00	Of liquid elevators		3%	Free	(A,CA,E,IL,J	) 35%

8414		Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not					
8414.10.00	00	fitted with filters; parts thereof:  Vacuum pumps	No	3.7%	Free	(A,B,C,CA,E IL,J)	35%
8414.20.00	00	Hand- or foot-operated air pumps	No	3.7%	Free	(A,B,C,CA,E IL,J)	35%
8414.30		Compressors of a kind used in refrigerating				, - ,	
8414.30.40	00	equipment (including air conditioning): Not exceeding 1/4 horsepower	No	3.4%	Free	(A,B,C,CA,E IL,J)	35%
8414.30.80		Other		3.4%	Free	(A,B,C,CA,E IL,J)	35%
	10 20	Screw type:  Not exceeding 200 horsepower Exceeding 200 horsepower Other: For all refrigerants except ammonia:	No. No.				
	30	For motor vehicles Other:	No.				
	50	Exceeding 1/4 horsepower but not exceeding 1 horsepower	No.				
	60	Exceeding 1 horsepower but not exceeding 3 horsepower	No.				
	70	Exceeding 3 horsepower but not exceeding 10 horsepower	No.				
	80	Exceeding 10 horsepower	No.				
	90	For ammonia					
8414.40.00	00	Air compressors mounted on a wheeled chassis for towing	No	3.4%	Free	(A,CA,E,IL,J	) 35%
8414.51.00		Fans: Table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output not					
		exceeding 125 W		4.7%	Free	(A,C,E,IL, J)	35%
8414.59	30 60 90	For permanent installation: Ceiling fans Other Other:	No.		2.3%	(CA) <u>1</u> /	
8414.59.10 8414.59.80	00	Blowers for pipe organs			Exac	(A,B,C,CA,E	35% 35%
0414.59.00				4./0	rree	IL,J)	33%
	40	Suitable for use with motor vehicles	No.				
8414.60.00	60 90 95 00	Other: Centrifugal Axial Other Hoods having a maximum horizontal side	No. No.	. 50		(2 2 2 - ·	0.50
		not exceeding 120 cm	NO	4.7%	Free 2.3%	(A,B,E,IL,J) (CA)	35%

<sup>1/</sup> See subheading 9905.84.08.

8414 (con.)		Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof (con.):					
8414.80 8414.80.10		Other, except parts: Air compressors		3.4%	Free	(A,B,C,CA,E	35%
		Stationary:				IL,J)	
	05 15	Reciprocating: Not exceeding 746 W Exceeding 746 W but not exceeding 4.48 kW					
		4.40 NW	NO.				
	25	Exceeding 4.48 kW but not exceeding 8.21 kW	No.				
	35	Exceeding 8.21 kW but not exceeding 11.19 kW	No.				
	40	Exceeding 11.19 kW but not exceeding 19.4 kW	No.				
	45	Exceeding 19.4 kW but not exceeding 74.6 kW	No.				
	55	Exceeding 74.6 kW Rotary:	No.				
	60 65	Not exceeding 11.19 kW Exceeding 11.19 kW but under 22.38 kW					
	70	22.38 kW and over but not exceeding 74.6 kW	No.				
	75	Exceeding 74.6 kW	No.				
	80	OtherPortable:					
	85	Under 0.57 cubic meters per minute	No.				
8414.80.20	90	OtherOther compressors		3.4%	Free	(A,B,C,CA,E	35%
	10	Centrifugal and axial	No.			IL,J)	
	50 60	Not exceeding 186.5 kW Exceeding 186.5 kW but not exceeding 746 kW					
8414.80.90	70 00	Exceeding 746 kW	No.	3.7%	Free	(A,B,C,CA,E	35%
						IL,J)	

8414 (con.)		Air or vacuum pumps, air or other gas compressors and fans; ventilating or recycling hoods incorporating a fan, whether or not fitted with filters; parts thereof (con.):					
8414.90		Parts:					
8414.90.10		Of fans (including blowers) and					
		ventilating or recycling hoods		4.7%	Free	(A,B,C,CA,E IL,J)	35%
	40	Of fans of subheading 8414.51.00	X				
	80	Other	X				
8414.90.20		Of compressors		3.4%	Free	(A,B,C,CA,E IL,J)	35%
		Of refrigerating and air					
		conditioning compressors:					
	20	Compressor housings	No.				
	40	Other	X				
		Other:					
		Of compressors of subheading					
		8414.40:					
	45	Compressor housings					
	55	Other	X				
		Other:					
	65	Compressor housings					
	75	Other					
8414.90.90		Other		3.7%	Free	(A,B,C,CA,E IL,J)	35%
	40	Of vacuum pumps	X				
	80	Other	X				

### 15.10.00   Window of wall types, self-contained.	8415		Air conditioning machines, comprising a motor-driven fan and elements for changing the temperature and humidity, including those machines in which the humidity cannot be separately regulated; parts thereof:					
10	8415.10.00				2.2%			35%
## Second Company of the content of			2.93 kW per hour or greater but less			1.1%	(CA) <u>1</u> /	
Cooling/heat cycle	8415.81.00	80	Other, except parts: Incorporating a refrigerating unit and	No.				
Self-contained: Not exceeding 17.58 kW per hour. No.					2.2%		J)	35%
Second		10	Not exceeding 17.58 kW per	No.		1.1%	(CA) <u>2</u> /	
Second		2.0	Exceeding 17 58 kW per hour	No				
Unit.								
Condenser type air conditioners other than year-round units:   Not exceeding 17.58 kW per   No.	8415.82.00				2.2%	Free		35%
hour			<pre>condenser type air conditioners other than year-round units:</pre>					
Exceeding 17.58 kW per hour No.   Year-round units (heating and cooling):		05		No.				
Year-round units (heating and cooling):   Cooling):								
Der Nour			Year-round units (heating and cooling):	NO.				
Air conditioning evaporator coils No.   Room or central station air conditioning units for use with   water chillers:   Room fan coil units		15		No.				
Room fan coil units			Air conditioning evaporator coils Room or central station air conditioning units for use with					
40		30		No.				
With a rated water removal capacity of less than 35 liters over a 24 hour period								
Description of less than 35 liters over a 24 hour period		55						
Other air conditioning machines incorporating a refrigerating unit No.		33	pacity of less than 35 liters	No.				
incorporating a refrigerating unit No.  Not incorporating a refrigerating unit No.  40				No.				
8415.83.00 Not incorporating a refrigerating unit		65		No				
40 Automotive air conditioners No. Other:  Heat exchangers including condensing units:  Condensing units:  Not exceeding 17.58 kW per hour No.  60 Exceeding 17.58 kW per hour No.  70 Other No. 90 Other air conditioning machines not incorporating a refrigerating unit No.  8415.90.00 Parts	8415.83.00				2.2%	Free		35%
Condensing units:   Condensing units:		40	Other:	No.			IL,J)	
Not exceeding   17.58 kW per hour   No.   No.			condensing units:					
per hour		50	Not exceeding	No.				
per hour No. 70 Other air conditioning machines not incorporating a refrigerating unit No. 8415.90.00 Parts		60	Exceeding 17.58 kW					
90 Other air conditioning machines not incorporating a refrigerating unit			per hour					
8415.90.00 Parts			Other air conditioning machines not incorporating					
J) 1.1% (CA) <u>2/3</u> / 40 Of automotive air conditioners X 60 Of heat pumps X	8415.90.00				2.2%	Free	(A*,B,C,E,IL.	35%
40 Of automotive air conditioners X 60 Of heat pumps X							J)	
		40	Of automotive air conditioners	X		1.10	(CA) <u>4</u> / <u>3</u> /	
		60	Of heat pumps	X				

 $<sup>\</sup>frac{1}{2}/$  See subheading 9905.84.03.  $\frac{2}{3}/$  See subheading 9905.00.00.  $\frac{3}{2}/$  See subheadings 9905.84.14 and 9905.84.16.

8416		Furnace burners for liquid fuel, for pulverized solid fuel or for gas; mechanical stokers, including their mechanical grates, mechanical ash dischargers and similar appliances; parts thereof:		
8416.10.00 8416.20.00	00	Furnace burners for liquid fuel No Other furnace burners, including combination	. 3.4%	Free (A,CA,E,IL,J) 27.5%
8416.30.00	40 80	burners	. 3.4%	Free (A,CA,E,IL,J) 27.5%
0410.30.00	00	mechanical grates, mechanical ash dischargers and similar appliances X	. 3.4%	Free (A,E,IL,J) 27.5% 1.7% (CA)
8416.90.00	00	Parts X	. 3.4%	Free (A,E,IL,J) 27.5% 1.7% (CA) <u>1</u> /
8417		<pre>Industrial or laboratory furnaces and ovens, including incinerators, nonelectric, and parts thereof:</pre>		
8417.10.00	00	Furnaces and ovens for the roasting, melting or other heat treatment of ores, pyrites or of metals	. 5.7%	Free (A,CA,E,IL,J) 45%
8417.20.00 8417.80.00 8417.90.00	0 0 0 0 0 0	Bakery ovens, including biscuit ovens No Other, except parts	. 5.7%	Free (A,CA,E,IL,J) 45% Free (A,CA,E,IL,J) 45% Free (A,CA,E,IL,J) 45%

8418 8418.10.00		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, other than the air conditioning machines of heading 8415; parts thereof: Combined refrigerator-freezers, fitted with					
0410.10.00		separate external doors		2.9%	Free	(A,B,C,E,IL, J)	35%
					1.4%		
		Compression type:					
	10	Having a refrigerated volume of under 184 liters N	10.				
	20	Having a refrigerated volume of					
		184 liters and over but under					
		269 liters N	10.				
	30	Having a refrigerated volume of					
		269 liters and over but under					
		382 liters N	10.				
	40	Having a refrigerated volume of					
		382 liters and over N					
	90	OtherN	lo.				
8418.21.00		Refrigerators, household type:		2 00		(3 E TT T)	2 = 0.
8418.21.00		Compression type		2.96	1.4%	(A,E,IL,J)	35%
	10	Having a refrigerated volume of			1.40	(CA)	
		under 184 liters N	lo.				
	20	Having a refrigerated volume of					
		184 liters and over but under	_				
		269 liters N	lo.				
	30	Having a refrigerated volume of					
		269 liters and over but under					
		382 liters N	lo.				
	90	Having a refrigerated volume of					
		382 liters and over N	lo.				
8418.22.00	00	Absorption type, electrical N				(A,CA,E,IL,J)	35%
8418.29.00	00	Other N	Io	2.9%		(A,E,IL,J)	35%
0410 20 00	0.0	Freezers of the chest type, not exceeding			1.4%	(CA)	
8418.30.00	00	800 liters capacity N	Īo.	2.9%	Free	(A,C,E,IL,J)	35%
		ooo iiceis capacity		2.00	1.4%		223
8418.40.00	00	Freezers of the upright type, not exceeding				/	
		900 liters capacity N	Io	2.9%	Free	(A,C,E,IL,J)	35%
					1.4%	(CA)	

8418 (con.)		Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps, other than the air conditioning machines					
8418.50.00		of heading 8415; parts thereof (con.):  Other refrigerating or freezing chests, cabinets, display counters, showcases and similar refrigerating or freezing furniture		2.9%		(A,E,IL,J)	35%
	40 80	FreezingOtherOther refrigerating or freezing equipment; heat pumps:			1.4%	(CA)	
8418.61.00		Compression type units whose condensers are heat exchangers		2.9%		(A,B,C,E,IL, J) (CA) <u>1</u> /	35%
	40 80	Finned coil typeOther			1.10	(CA) <u>1</u> /	
8418.69.00		Other		2.9%	Free	(A,B,C,E,IL, J)	35%
	10	Icemaking machines:  Self-contained, cube and flake with a capacity not exceeding 227 kg	No.		1.4%	(CA) <u>1</u> /	
	15 20	Other  Drinking water coolers, self- contained					
	25	Soda fountain and beer dispensing equipment					
	45 50 55 60	Centrifugal liquid chilling refrigerating units:	No.				
	90	Other refrigerating or freezing equipment:  Household	No.				
	95	OtherParts:	No.				
8418.91.00	00	Furniture designed to receive refrigerating or freezing equipment	x	2.9%	Free 1.4%	(A,B,E,IL,J)	35%
8418.99.00		Other		2.9%		(A,B,E,IL,J)	35%
	05 10	Refrigeration condensing units: Not exceeding 746 W Exceeding 746 W but not exceeding 2.2 kW				(==)	
	15	Exceeding 2.2 kW but not exceeding 7.5 kW	No.				
	20	Exceeding 7.5 kW but not exceeding 22.3 kW	No.				
	25	Exceeding 22.3 kWOther:	No.				
	50	Parts of combined Parts of combined refrigerator-freezers fitted with separate external doors and parts of household type refrigerators	x				
	60	Other	X				

 $<sup>\</sup>underline{1}$ / See subheading 9905.84.10.

8419		Machinery, plant or laboratory equipment, whether or not electrically heated, for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilizing, pasteurizing, steaming, drying, evaporating, vaporizing, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, nonelectric; parts thereof:  Instantaneous or storage water heaters, nonelectric:					
8419.11.00	00	Instantaneous gas water heaters	No	4%	Free 2% (C	(A,E,IL,J)	45%
8419.19.00		Other		4%		(A*,E,IL,J)	45%
	20	Instantaneous water heaters	No.				
8419.20.00	60 00	Other Medical, surgical or laboratory sterilizers Dryers:		4.2%	Free	(A,CA,E,IL,J)	35%
8419.31.00 8419.32	00	For agricultural products For wood, paper pulp, paper or paper- board:	No	4.2%	Free	(A,CA,E,IL,J)	35%
8419.32.10	0.0	For wood	No	4.2%	Free	(A,CA,E,IL,J)	35%
8419.32.50	0.0	Other		2.4%		(A, CA, E, IL, J)	
8419.39.00	00	Other		4.2%		(A, CA, E, IL, J)	
0410.00.00	4.0	For food and beverages		7.20	FICC	(A, CA, E, IE, O)	220
	80	Other					
0410 40 00	00			4 00		(3 C3 D TT T)	250
8419.40.00		Distilling or rectifying plant		4.2%	Free	(A,CA,E,IL,J)	358
	40	For food and beverages					
	80	Other			_		
8419.50.00		Heat exchange units		4.2%	Free	(A,C,CA,E, IL,J)	35%
	40	Brazed aluminum plate-fin heat					
		exchangers	No.				
	80	Other	No.				
8419.60.00		Machinery for liquefying air or other gases		4.2%	Free	(A,CA,E,IL,J)	35%
	40	Machinery containing brazed aluminum plate-fin heat exchangers	No.				
	80	Other	No.				

8419 (con.)		Machinery, plant or laboratory equipment, whether or not electrically heated, for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilizing, pasteurizing, steaming, drying, evaporating, vaporizing, condensing or cooling, other than machinery or plant of a kind used for domestic purposes; instantaneous or storage water heaters, nonelectric; parts thereof (con.):  Other machinery, plant or equipment:			
8419.81		For making hot drinks or for cooking or heating food:			
8419.81.10	00	Microwave ovens	No	4%	Free (A,C,E,IL,J) 35% 2% (CA)
8419.81.50	40	Other cooking stoves, ranges and ovens	No.	Free	35%
8419.81.90	80	Other		4.1%	Free (A,C,CA,E, 35% IL,J)
	40	Of a type used in restaurants, hotels or similar locations	No.		111,07
8419.89	80	Other:	No.		
8419.89.10	00	For making paper pulp, paper or paperboard	No	2.4%	Free (A,CA,E,IL,J) 35%
8419.89.50		Other  Designed for cooling:		4.2% <u>1</u> /	Free (A,CA,E,IL,J) 35%
	20 40	For food and beverages Other Other:			
	60 70 75	For food and beverages For rubber and plastics For other materials	No.		
8419.90 8419.90.10	00	Parts: Of instantaneous or storage water heaters	x	4%	Free (A*,E,IL,J) 45% 2% (CA)
8419.90.20	00	Of machinery and plant for making paper pulp, paper or paperboard	X	2.4%	Free (A,CA,E,IL,J) 35%
8419.90.30	00	Of heat exchange units	х	4.2% <u>1</u> /	Free (A,C,CA,E, 35% IL,J)
8419.90.90	20	Other  Of an apparatus of a type used in restaurants, hotels or similar locations		4.2% <u>1</u> /	Free (A,CA,E,IL,J) 35%
	40	Of medical, surgical or laboratory sterilizers	X		
	60	Other	X		

8420			olling machines, other than nd cylinders therefor; parts			
8420.10 8420.10.10	00	Calendering or ot Textile cale	her rolling machines: ndering or rolling	No	5.1%	Free (A,CA,E,IL,J) 40%
8420.10.20	00	for making p	or similar rolling machines aper pulp, paper or paper-	No	Free	35%
8420.10.90	4.0		ring or other rolling		3.7%	Free (A,CA,E,IL,J) 35%
	10		s for rubber and plastics	No.		
	80	Other Parts:		No.		
8420.91		Cylinders:				
8420.91.10	00		tile calendering or rolling	No	5.1%	Free (A,CA,E,IL,J) 40%
8420.91.20	00		endering or other rolling			
			s for machines for making ulp, paper or paperboard	No	Free	35%
8420.91.90	00	Other		No	3.7%	Free (A,CA,E,IL,J) 35%
8420.99		Other:				
8420.99.10	00		ines for processing	х	5.1%	Free (A,CA,E,IL,J) 40%
8420.99.20	00		ines for making paper aper or paperboard	x	Free	35%
8420.99.90	00	Other		X	3.7%	Free (A,CA,E,IL,J) 35%

8421		Centrifuges, including centrifugal dryers; filtering or purifying machinery and apparatus, for liquids or gases; parts thereof: Centrifuges, including centrifugal dryers:					
8421.11.00	0.0	Cream separators	No	3.7%	Free	(A, CA, E, IL, J)	25%
8421.12.00	0.0	Clothes-dryers				(A, CA, E, IL, J)	
8421.19.00	0.0	Other					25%
		Filtering or purifying machinery and apparatus for liquids:				IL,Ĵ)	
8421.21.00	00	For filtering or purifying water	No	3.9%	Free	(A,C,CA,E, IL,J)	35%
8421.22.00	0.0	For filtering or purifying beverages				11,0)	
		other than water	No	3.9%	Free	(A,CA,E,IL,J)	35%
8421.23.00	0.0	Oil or fuel filters for internal					
		combustion engines	X	3.1%	Free	(A,B,C,CA,E : IL,J)	35%
8421.29.00		Other		3.9%	Free		35%
	20	Oil-separation equipment	X				
	40	Hydraulic fluid power filters,					
		rated at 1,000 kPa or greater	No.				
	60	Other Filtering or purifying machinery and	X				
		apparatus for gases:					
8421.31.00	0 0	Intake air filters for internal					
		combustion engines	X	3.1%	Free	(A,B,C,CA,E	35%
8421.39.00		Other		2 0%	Emaa	IL,J) (A,B,C,CA,E,	2 E &
0421.39.00		Other		3.9%	rree	IL,J)	338
	10	Dust collection and air				/-/	
		purification equipment	X				
		Other: Industrial gas cleaning					
		equipment:					
	20	Electrostatic					
		precipitators	NO.				
	30	Other	No				
	40	Gas separation equipment Other:					
	60	Pneumatic fluid power					
		filters, rated at					
		550 kPa or greater	No.				
	90	Other	X				
8421.91.00	0.0	Parts: Of centrifuges, including centrifugal					
0121.91.00	00	dryers	x	3 9%	Free	(A,CA,E,IL,J)	25%
8421.99.00		Other				(A, B, CA, E, IL,	
						J)	
	40	Parts of machinery and apparatus					
		for filtering or purifying water	X				
	8.0	Othor	v				
	00	Other	Δ				

8422		Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing, capsuling or labeling bottles, cans, boxes, bags or other containers; other packing or wrapping machinery; machinery for aerating beverages; parts thereof:			
8422.11.00	00	Dishwashing machines: Of the household type	No	3.6%	Free (A,E,IL,J) 35% 1.8% (CA)
8422.19.00	00	Other	No	3.6%	Free (A,E,IL,J) 35% 1.8% (CA)
8422.20.00	00	Machinery for cleaning or drying bottles or other containers	No	3.6%	Free (A,CA,E,IL,J) 35%
8422.30		Machinery for filling, closing, sealing, capsuling or labeling bottles, cans, boxes, bags or other containers; machinery for aerating beverages:			
8422.30.10 8422.30.90	00	Can-sealing machinesOther.		4.5% 3.6%	Free (A,CA,E,IL,J) 30% Free (A,CA,E,IL,J) 35%
	10 20	Machines for aerating beverages  Labeling machines  Other:  Machinery for filling,  Alexinery applies			
		closing, sealing, capsuling or labeling bottles, cans or similar containers:     Machines for filling,     whether or not capable     of performing other     operations:			
	30	Vacuum or gas packaging	No.		
	40	Other  Machines which perform only the following operations: capping, lidding, sealing or closing:	No.		
	50	Vacuum or gas packaging	No.		
	60 70	Other			
	70	Machinery for filling, closing, sealing, capsuling or labeling boxes, bags or similar containers:	NO.		
	80	Machines for opening, filling and closing bags	No.		
8422.40 8422.40.10	90	Other Other packing or wrapping machinery: Machines for packaging pipe tobacco; machines for wrapping candy; machines for wrapping cigarette packages; and combination candy cutting and	No.		
	10	wrapping machines  Machines for wrapping candy  Other	No.	3.4%	Free (A,CA,E,IL,J) 35%
8422.40.90	40 80	Other	No.	3.6%	Free (A,CA,E,IL,J) 35%

8422 (con.)		Dishwashing machines; machinery for cleaning or drying bottles or other containers; machinery for filling, closing, sealing, capsuling or labeling bottles, cans, boxes, bags or other containers; other packing or wrapping machinery; machinery for aerating beverages; parts thereof (con.):			
8422.90 8422.90.05		Parts: Of dishwashing machines		3.6%	Free (A*,E,IL,J) 35%
	40 80	Of the household type			1.8% (CA) <u>1</u> /
8422.90.10 8422.90.20	00	Of can-sealing machines	X	4.5%	Free (A,CA,E,IL,J) 30%
		cutting and wrapping machines	x	3.4%	Free (A,CA,E,IL,J) 35%
8422.90.90	20	Other Of machinery for cleaning or drying bottles or other containers		3.6%	Free (A,CA,E,IL,J) 35%
		Other:			
	30	Of strapping machines	X		
	60	Of other wrapping and packaging machines	Х		
	95	Other	X		
8423		Weighing machinery (excluding balances of a sensitivity of 5 cg or better), including weight-operated counting or checking machines; weighing machine weights of all kinds; parts of weighing machinery:			
8423.10.00	1.0	Personal weighing machines, including baby scales; household scales		4.4%	Free (A,CA,E,IL,J) 45%
	10	Digital electronic type	NO.		
	30	Of a kind suitable for carrying on the person	No.		
	60	Other	No.		
8423.20.00	00	Scales for continuous weighing of goods on conveyors	No	4.4%	Free (A,CA,E,IL,J) 45%
8423.30.00	00	Constant-weight scales and scales for discharging a predetermined weight of material into a bag or container,			
		including hopper scales	No	4.4%	Free (A,CA,E,IL,J) 45%
8423.81.00		Other weighing machinery:			
0423.01.00		Having a maximum weighing capacity not exceeding 30 kg		4.4%	Free (A,CA,E,IL,J) 45%
	10	Counting scales	No.		
	20 30	Retail scales, non-computing Retail scales, computing			
	40	Other	No.		
8423.82.00	50	Other	No.		
	10	5,000 kg Digital electronic type	No.	4.4%	Free (A,CA,E,IL,J) 45%
8423.89.00	50	Other	No.	4.4%	Free (A CA P TT T) 45%
0423.03.00	10 50	Othertype	No.	7.40	Free (A,CA,E,IL,J) 45%
8423.90.00		Weighing machine weights of all kinds; parts		5 50	D /3 C3 D T T T T
	40 80	of weighing machinery.  Digital weight indicators  Other	No.	5.5%	Free (A,CA,E,IL,J) 45%

 $<sup>\</sup>underline{1}$ / See subheading 9905.84.21.

8424		Mechanical appliances (whether or not hand operated) for projecting, dispersing or spraying liquids or powders; fire extinguishers, whether or not charged; spray guns and similar appliances; steam or sand blasting machines and similar					
8424.10.00	00	jet projecting machines; parts thereof: Fire extinguishers, whether or not charged	No	3.7%		(A,B,C,E,IL, J)	35%
8424.20		Spray guns and similar appliances:			1.8%	(CA) <u>1</u> /	
8424.20.10	00	Simple piston pump sprays and powder bellows	x	5.7%	Free	(A*,B,CA,E,	45%
8424.20.90	00	Other	х	3.7%	Free	IL,J) (A,B,CA,E,IL, J)	35%
8424.30		Steam or sand blasting machines and similar jet projecting machines:				-,	
8424.30.10	00	Sand blasting machines	No	Free			Free
8424.30.90	00	OtherOther appliances:	X	3.7%	Free	(A,CA,E,IL,J)	35%
8424.81 8424.81.10	00	Agricultural or horticultural: Sprayers (except sprayers, self- contained, having a capacity not					
		over 20 liters)	X	Free			Free
8424.81.90		Other Irrigation equipment:		3.7%	Free	(A,CA,E,IL,J)	35%
	10	Self-propelled, center pivot	No.				
		p1.000	1.0.				
	20	Other					
0404 00 00	30	Other		2 70.		(3 D G3 E TI	250
8424.89.00		Other		3.7%	rree	(A,B,CA,E,IL, J)	356
	10	Sprinkler systems (fire extinguishing equipment)	No.				
	40	Spraying appliances designed for etching, stripping or cleaning semiconductor wafers	No.				
	8.0	Other	No				
8424.90		Parts:			_	()	2.50
8424.90.05	00	Of fire extinguishers	X	3.7%		(A,B,E,IL,J) (CA) <u>2</u> /	35%
8424.90.10	00	Of simple piston pump sprays and powder bellows	х	5.7%	Free	(A,B,CA,E,IL, J)	45%
8424.90.20	00	Of sand blasting machines	х	Free		5,	Free
8424.90.90		Other		3.7%	Free	(A,B,CA,E,IL, J)	35%
	40	Of steam and similar jet projecting machines	X			•	
	80	Other	х				

 $<sup>\</sup>underline{1}$ / See subheading 9905.00.00.  $\underline{2}$ / See subheading 9905.84.26.

8425		Pulley tackle and hoists other than skip hoists; winches and capstans; jacks:					
		Pulley tackle and hoists other than skip hoists or hoists of a kind used for raising vehicles:					
8425.11.00	00	Powered by electric motor	No	2%	Free	(A,B,C,CA,E IL,J)	35%
8425.19.00	00	Other	No	2%	Free	(A,B,C,CA,E IL,J)	35%
8425.20.00	00	Pit-head winding gear; winches specially designed for use underground	No	2%	Free	(A,CA,E,IL,J)	35%
8425.31.00	0.0	Other winches; capstans: Powered by electric motor	No	2%	Free	(A,B,C,CA,E	35%
		•				IL,J)	
8425.39.00	00	Other	NO	2%	Free	(A,B,C,CA,E IL,J)	35%
		Jacks; hoists of a kind used for raising vehicles:					
8425.41.00	00	Built-in jacking systems of a type used					
		in garages	No	2%	Free	(A,CA,E,IL,J)	35%
8425.42.00	00	Other jacks and hoists, hydraulic	No	2%	Free	(A,B,C,CA,E, IL,J)	35%
8425.49.00	00	Other	No	2%	Free	(A,B,C,CA,E IL,J)	35%
8426		Ships' derricks; cranes, including cable cranes; mobile lifting frames, straddle carriers and works trucks fitted with a crane:  Overhead traveling cranes, transporter cranes, gantry cranes, bridge cranes, mobile					
8426.11.00	00	lifting frames and straddle carriers: Overhead traveling cranes on fixed					
		support	No	2%	Free	(A,CA,E,IL,J)	35%
8426.12.00	0.0	Mobile lifting frames on tires and					
0420.12.00	00	straddle carriers	No	2%	Free	(A,CA,E,IL,J)	35%
8426.19.00	0.0	Other	No	2%	Free	(A,CA,E,IL,J)	35%
8426.20.00	0.0	Tower cranes		28		(A, CA, E, IL, J)	
8426.30.00	00	Portal or pedestal jib cranes Other machinery, self-propelled:		2%		(A, CA, E, IL, J)	
0406 41 00				28	П	/ A C A E TT T)	2 = 0.
8426.41.00	05	On tires		26	rree	(A,CA,E,IL,J)	356
	10	Cable operated	No				
	90	Other					
0406 40 00	90			0.0		(3 C3 E TT T)	250
8426.49.00	10	Other	No.	2%	rree	(A,CA,E,IL,J)	356
	90	Other machinery:					
8426.91.00	00	Designed for mounting on road vehicles		2%		(A,CA,E,IL,J)	
8426.99.00	00	Other	No	2%	Free	(A,C,CA,E, IL,J)	35%

8427 8427.10.00		Fork-lift trucks; other works trucks fitted with lifting or handling equipment:  Self-propelled trucks powered by an electric					
6427.10.00	10 60	motor	No.	Free			35%
	90	Other					
8427.20.00	00	Other self-propelled trucks	No	Free			35%
8427.90.00	00	Other trucks	No	Free			35%
8428		Other lifting, handling, loading or unloading machinery (for example, elevators, escalators, conveyors, teleferics):					
8428.10.00	00	Passenger or freight elevators other than					
		continuous action; skip hoists	No	2%	Free	(A,B,C,CA,E IL,J)	35%
8428.20.00		Pneumatic elevators and conveyors		2%	Free	(A,B,C,CA,E, IL,J)	35%
	10	Conveyors				, .	
	50	ElevatorsOther continuous-action elevators and	No.				
8428.31.00	0.0	conveyors, for goods or materials:  Specially designed for underground use	No	2%	Free	(A,CA,E,IL,J)	35%
8428.32.00	00	Other, bucket type		2%		(A,B,CA,E,IL, J)	
8428.33.00	00	Other, belt type	No	2%	Free	(A,B,C,CA,E IL,J)	35%
8428.39.00	00	Other	No	2%	Free	(A,B,C,CA,E IL,J)	35%
8428.40.00	00	Escalators and moving walkways	No	2%	Free	(A,CA,E,IL,J)	35%
8428.50.00	00	Mine wagon pushers, locomotive or wagon traversers, wagon tippers and similar					
		railway wagon handling equipment	No	2%	Free	(A,CA,E,IL,J)	35%
8428.60.00	00	Teleferics, chair lifts, ski draglines;					
		traction mechanisms for funiculars	No	2%	Free	(A,CA,E,IL,J)	35%
8428.90.00		Other machinery		2%	Free	(A*,B,C,CA,E IL,J)	35%
	02	Of a kind used in charging or discharging furnaces	No.			12/0/	
	04	Of a kind used for radioactive	No.				
	06	Woodland log handling equipment (other than skidders)	No.				
	10 20 30 40 90	Other: Industrial robots Oil and gas field machinery Sidebooms and pipehandlers. Loaders, underground mine type Other	No. No.				

8429		Self-propelled bulldozers, angledoze levelers, scrapers, mechanical shove shovel loaders, tamping machines and	els, excavators,					
8429.11.00		Bulldozers and angledozers: Track laying			2.5%	Free	(A*,CA,E,IL, J)	35%
	10 90	New Used or rebuilt		No.				
8429.19.00	10 90	Other		No.	2.5%	Free	(A,CA,E,IL,J)	35%
8429.20.00	00	Graders and levelers			2.5%	Free	(A*,CA,E,IL, J)	35%
8429.30.00		Scrapers			2.5%	Free	(A*,CA,E,IL, J)	35%
	20 40 60	New:  Not exceeding 13.7 m <sup>3</sup> .  Exceeding 13.7 m <sup>3</sup> Used or rebuilt		No. No.				
8429.40.00		Tamping machines and road rolle New:			2.5%	Free	(A,CA,E,IL,J)	35%
	20 40 60	Vibratory Other Used or rebuilt Mechanical shovels, excavators		No.				
8429.51 8429.51.10		Front-end shovel loaders: Wheel-type			2%	Free	(A,CA,E,IL,J)	35%
		New:	actor shovel				(22, 223, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	
	05	mounted: 2 wheel 4 wheel a bucke		No.				
	15	of: Un	nder 1.5 m³	No.				
	25	1.	least 5 m³ but nder 2.2 m³	No.				
	30	2.	t least .2 m³ but nder 2.9 m³	No.				
	35	2.	t least .9 m³ but nder 3.8 m³	No.				
	40	3.	t least .8 m³ but nder 5.2 m³	No.				
	45	5.	t least .2 m³ but nder 7.6 m³	No.				
	50	7.	t least .6 m³ but nder 11.4 m³	No.				
	55		L.4 m³ nd over	No.				
	60 65			No.				

8429 (con.)		Self-propelled bulldozers, angledozers, graders, levelers, scrapers, mechanical shovels, excavators, shovel loaders, tamping machines and road rollers (con.):  Mechanical shovels, excavators and shovel loaders (con.):			
8429.51 (con.)		Front-end shovel loaders (con.):			
8429.51.50		Other		. 2.5%	Free (A,CA,E,IL,J) 35%
	10	New: Less than 44.7 kW	No.		
	20	At least 44.7 kW but under 67.1 kW	No.		
	30	At least 67.1 kW but under 93.2 kW	No		
		under 55.2 kw	NO.		
	40	At least 93.2 kW but under 119.3 kW	No.		
	50	119.3 kW and over	No.		
	60	Used or rebuilt			
8429.52		Machinery with a 360° revolving superstructure:			
8429.52.10		Backhoes, shovels, clamshells and			
		draglines New:		. 2%	Free (A,CA,E,IL,J) 35%
	10	Crawler mounted: Hydraulic	No		
	20	Other			
	2.0	Other:	37.		
	30 40	Hydraulic Other			
	50	Used or rebuilt			
8429.52.50	1.0	Other		. 2.5%	Free (A,CA,E,IL,J) 35%
	10 90	New Used or rebuilt			
8429.59	50	Other:			
8429.59.10		Backhoes, shovels, clamshells and		20.	D /7 C7 D T T T 25%
		draglines		. 2%	Free (A,CA,E,IL,J) 35%
	30	Backhoes			
	60 90	Other			
8429.59.50	90	Used or rebuilt Other		. 2.5%	Free (A,CA,E,IL,J) 35%
		New:			
	2.0	Ditchers and trenchers:	No		
	20 40	Ladder type Other			
	60	Other	No.		
	80	Used or rebuilt	No.		

8430		Other moving, grading, leveling, scraping, excavating, tamping, compacting, extracting or boring machinery, for earth, minerals or					
		ores; pile-drivers and pile-extractors;					
		snowplows and snowblowers:		0 =0	_	/- ~\	. = 0
8430.10.00 8430.20.00	00	Pile-drivers and pile-extractors Snowplows and snowblowers				(A,CA,E,IL,J) (A,E,IL,J)	358 358
0430.20.00		bhowpiows and showbiowers		2.50	1.2%		550
		Snowblowers:				, ,	
	30	Attachment type					
	60	Other					
	90	Other  Coal or rock cutters and tunneling machinery:	No.				
8430.31.00		Self-propelled		2.5%	Free	(A,CA,E,IL,J)	35%
0150.51.00	40	Rock breaking machines	No.	2.30	1100	(11, 611, 11, 11, 0)	550
	80	Other					
8430.39.00		Other		2.5%	Free	(A,CA,E,IL,J)	35%
	40	Rock breaking machines					
	80	OtherOther boring or sinking machinery:	NO.				
8430.41.00	0.0	Self-propelled	No	2.5%	Free	(A,CA,E,IL,J)	35%
8430.49	0.0	Other:	1.0	2.50	1100	(11) (11) 2) 12) (1)	550
8430.49.40	00	Offshore oil and natural gas					
		drilling and production platforms	kg	5.7%		(-,,-,	45%
0430 40 00		011		0 50	2.8%		250
8430.49.80		Other		2.5%	Free	(A,CA,E,IL,J)	358
	1.0	drilling: Rotary	No				
	20	Other	No.				
		For water well drilling:					
	30	Rotary	No.				
	40	Other	No.				
0430 50	50	Other	No.				
8430.50 8430.50.10	0.0	Other machinery, self-propelled:  Peat excavators	No	Free			35%
8430.50.50	0.0	Other			Free	(A,CA,E,IL,J)	
		Other machinery, not self-propelled:			1100	(, 011, 2, 12, 0)	
8430.61.00	00	Tamping or compacting machinery				(A,CA,E,IL,J)	
8430.62.00	00	Scrapers		2.5%		(A, CA, E, IL, J)	
8430.69.00	00	Other	No	2.5%	Free	(A,CA,E,IL,J)	35%

10	8431 8431.10.00		Parts suitable for use solely or principally with the machinery of headings 8425 to 8430:  Of machinery of heading 8425		2%	Free	(A,B,CA,E,IL, 3	5%
8431.20.00 00 0f machinery of heading 8427		10	Of machinery of subheading 8425.11 or 8425.19	X			J)	
Skip hoists or escalators			Of machinery of heading 8427 Of machinery of heading 8428: Of passenger or freight elevators		Free		3!	5%
20			skip hoists or escalators		2%	Free		5%
10 Of elevators and conveyors X Other: 50 Of oil and gas field machinery X  70 Of the woodland log handling equipment of statistical reporting number 8428.90.0006. X  80 Other X Of machinery of heading 8426, 8429 or 8430: 8431.41.00 Buckets, shovels, grabs and grips 2.5% Free (A,CA,E,IL,J) 35% 20 Shovel attachments No. 40 Clamshell (grappler) attachments No. 60 Dragline buckets No. 8431.42.00 00 Bulldozer or angledozer blades No. 2.5% Free (A*,CA,E,IL, 35%	0421 20 00	40	Of escalatorsOther	X X	2%	Erroo	,	- °
Other:  Of oil and gas field machinery	0431.39.00	1.0			2.5	rree		56
machinery			Other:	Α				
equipment of statistical reporting number 8428.90.0006. X  80		50	machinery	X				
Of machinery of heading 8426, 8429 or 8430:  8431.41.00  Buckets, shovels, grabs and grips		70	equipment of statistical	х				
20 Shovel attachments No. 40 Clamshell (grappler) attachments No. 60 Dragline buckets No. 80 Other		80	Of machinery of heading 8426, 8429 or 8430:					
80 Other	8431.41.00		Shovel attachments	No.	2.5%	Free	(A,CA,E,IL,J) 3	5%
8431.42.00 00 Bulldozer or angledozer blades No 2.5% Free (A*,CA,E,IL, 35%			Dragline buckets	No.				
	8431.42.00				2.5%	Free		5%

8431 (con.)		Parts suitable for use solely or principally with the machinery of headings 8425 to 8430 (con.):			
(COII.)		Of machinery of heading 8426, 8429			
		or 8430 (con.):			
8431.43		Parts for boring or sinking machinery			
8431.43.40	0.0	of subheading 8430.41 or 8430.49: Of offshore oil and natural gas			
0131.13.10	00	drilling and productions platforms	х	5.7%	Free (E,IL,J) 45%
					2.8% (CA)
8431.43.80	10	Other		2.5%	Free (A,CA,E,IL,J) 35%
	10	Of oil and gas field machinery	x		
		dollately			
	90	Of other boring or sinking			
8431.49		machinery	X		
8431.49.10		Of machinery of heading 8426		2%	Free (A,B,CA,E,IL, 35%
		•			J)
	10	Of machinery of			
		subheadings 8426.11, 8426.19 and 8426.30	v		
		0420.19 and 0420.30	21		
	60	Of mobile lifting frames,			
		straddle carriers and works trucks fitted with a crane	37		
		trucks littled with a Crahe	Λ		
	90	Other	X		
8431.49.90		Other		2.5%	Free (A*,CA,E,IL, 35%
		Attachments for mounting on			J)
		machinery:			
	05	Backhoe attachments	No.		
	10	Front-end loader attachments	No		
		attachments	NO.		
	15	Rippers and rooters			
	20	Other	No.		
		Otner: Parts of coal or rock			
		cutters and tunneling			
		machinery:			
	25 30	Cast axle housings Other			
	30	Parts of backhoes,	Λ		
		shovels, clamshells			
		and draglines:			
	35 40	Cast axle housings Other			
	40	Other:	41		
	45	Scraper bowls for			
		scrapers of sub-			
		headings 8429.30 and 8430.62	No.		
	50	Track links			
	55 60	Cast axle housings Other			
	00	Other	41		

8432		Agricultural, horticultural or forestry machinery for soil preparation or cultivation; lawn or sports ground rollers; parts thereof:			
8432.10.00	20 40 60	Plows  Moldboard plows except listers  Disc plows  Other  Harrows, scarifiers, cultivators, weeders and hoes:	No. No.	Free	Free
8432.21.00 8432.29.00	00	Disc harrows Other Cultivators, weeders and hoes: Cultivators, tractor drawn or for tractor mounting		Free Free	Free Free
	60 80 90	Walk behind rotary tillers Other Other	No. No.		
8432.30.00	10	Seeders, planters and transplanters Planters and transplanters Seeders	No.	Free	Free
8432.40.00	0.0	Manure spreaders and fertilizer distributors		Free	Free
8432.80.00	00	Other machinery		Free	Free
8432.90.00		Parts		Free	Free
	05	Of plows	X		
	15	Of harrows, scarifiers, cultivators, weeders and hoes	X		
	30	Of seeders, planters, transplanters, manure spreaders and fertilizer distributors	х		
	80	Of other machinery	Х		

8433 8433.11.00		Harvesting or threshing machinery, including straw or fodder balers; grass or hay mowers; machines for cleaning, sorting or grading eggs, fruit or other agricultural produce, other than machinery of heading 8437; parts thereof:  Mowers for lawns, parks or sports grounds:  Powered, with the cutting device rotating in a horizontal plane		4%	Free (A,E,IL,J)	30%
	10	Electric mowers, including battery operated	No.		2% (CA)	
		Riding mowers, other than				
	20	electric: Under 5.2 kW	No.			
	30	5.2 kW and over but under 7.46 kW				
	40	7.46 kW and over	No			
		Other:				
	50 60	Under 3.7 kW				
8433.19.00		Other		4%	Free (A,E,IL,J)	30%
	10	Greens mowers	No		2% (CA)	
	20	Gang cutting units				
	30	Other riding mowers	No.			
	40	Other: Gasoline powered	No.			
	50	Other				
8433.20.00		Other mowers, including cutter bars for tractor mounting		Free		Free
		Tractor drawn or for tractor mounting:				
	20 40	Rotary cutter type Other				
	60	Other	No.			
8433.30.00 8433.40.00	00	Other haymaking machineryStraw or fodder balers, including pick-up	No	Free		Free
0133.10.00	00	balers	No	Free		Free
		Other harvesting machinery; threshing				
		machinery:				
8433.51.00	10	Combine harvester-threshers  Self-propelled		Free		Free
	90	Other				
8433.52.00	00	Other threshing machinery	No	Free		Free
8433.53.00 8433.59.00	00	Root or tuber harvesting machines		Free Free		Free Free
	10	Other  Field forage harvesters	No.			
8433.60.00	90	Other  Machines for cleaning, sorting or grading	No.			
0133.00.00		eggs, fruit or other agricultural produce		Free		Free
	10	Machines for cleaning, sorting or grading eggs	No			
8433.90	90	Other Parts:	No.			
8433.90.10	00	Of mowers for lawns, parks or sports				
		grounds	X	4%	Free (A,E,IL,J) 2% (CA)	30%
8433.90.50		Other		Free		Free
0133.30.30		Of other mowers, harvesting		1100		1100
	20	machines and threshing machines: Of haying machines and balers	Y			
	40	Of maying machines and barers Other				
	60	Of machines for cleaning, sorting				
		or grading eggs	Λ			
	80	Of machines for cleaning, sorting				
		or grading fruit or other agricultural produce	X			
		- · ·				

8434		Milking machines and dairy machinery, and parts thereof:			
8434.10.00	0.0	Milking machines	No	Free	Free
8434.20.00	00	Dairy machinery	No	Free	Free
8434.90.00	00	Parts	X	Free	Free
8435		Presses, crushers and similar machinery, used in			
		the manufacture of wine, cider, fruit juices or			
8435.10.00	0.0	similar beverages; parts thereof:  Machinery	No	4.2%	Free (A,CA,E,IL,J) 40%
8435.90.00	0.0	Parts		4.2%	Free (A,CA,E,IL,J) 40%
					(,, -,, -,,
8436		Other agricultural, horticultural, forestry,			
		poultry-keeping or bee-keeping machinery, including germination plant fitted with mechanical			
		or thermal equipment; poultry incubators and			
		brooders; parts thereof:			
8436.10.00	00	Machinery for preparing animal feeds	No	Free	Free
		Doultwe knowing maghineres, noultwe inqubators			
		Poultry-keeping machinery; poultry incubators and brooders:			
8436.21.00	00	Poultry incubators and brooders	No	Free	Free
8436.29.00	00	Other		Free	Free
8436.80.00		Other_machinery		Free	Free
	20	Forestry machineryOther:			
	40	Barn and barnyard machines	No.		
	60	Machines for preparing crops for market or for use	No		
		TOT MATREE OF TOT USE	110.		
		Other:			
	70	Bee-keeping machinery	No.		
	90	Other	No.		
		Parts:			
8436.91.00		Of poultry-keeping machinery or poultry			To a contract of the contract
	40	incubators and brooders		Free	Free
	80	Other			
8436.99.00		Other		Free	Free
	20	Of forestry machinery			
	30	Of bee-keeping machinery	X		
	35	Of machinery for preparing animal feeds	v		
		teeus	Λ		
		Other:			
	40	Of barn or barnyard machines	<u>X</u>		
	70	Of machines for preparing			
		crops for market or for use	x		
		авс			
	90	Other	X		

8437		Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables, and parts thereof; machinery used in the milling industry or for the working of cereals or dried leguminous vegetables, other than farm type machinery; parts thereof:				
8437.10.00	00	Machines for cleaning, sorting or grading seed, grain or dried leguminous vegetables	No	3.5%	Free	(A,CA,E,IL,J) 35%
8437.80.00	10 90	Other machinery  Flour mill and grain mill machines	No.	3.5%	Free	(A,CA,E,IL,J) 35%
8437.90.00	10 90	Other Parts Of flour mill or grain mill machines Other	X	3.5%	Free	(A,CA,E,IL,J) 35%
8438 8438.10.00		Machinery, not specified or included elsewhere in this chapter, for the industrial preparation or manufacture of food or drink, other than machinery for the extraction or preparation of animal or fixed vegetable fats or oils; parts thereof:  Bakery machinery and machinery for the				
8438.20.00	10 90 00	manufacture of macaroni, spaghetti or similar products	No.	3.5%	Free	(A,CA,E,IL,J) 35%
		confectionery, cocoa or chocolate	No	3.5%	Free	(A,CA,E,IL,J) 35%
8438.30.00 8438.40.00 8438.50.00	00	Machinery for sugar manufacture		Free 3.5%	Free	Free (A,CA,E,IL,J) 35%
	10	poultry  Meat- and poultry-packing plant machinery		3.5%	Free	(A,CA,E,IL,J) 35%
8438.60.00	90 00	Other Machinery for the preparation of fruits, nuts	No.			
		or vegetables	No	3.5%	Free	(A,CA,E,IL,J) 35%
8438.80.00 8438.90	00	Other machinery	No	4%	Free	(A,CA,E,IL,J) 40%
8438.90.10 8438.90.90	00	Of machinery for sugar manufacture Other		Free	Free	Free (A,CA,E,IL,J) 35%
	15	Of bakery machinery and machinery for the manufacture of macaroni, spaghetti or similar products				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	30	Of machinery for the manufacture of confectionery, cocoa or chocolate	х			
	60	Of machinery for the preparation of meat or poultry	Х			
	90	Other	Х			

8439		Machinery for making pulp of fibrous cellulosic material or for making or finishing paper or paperboard (other than the machinery of heading				
8439.10.00		8419); parts thereof: Machinery for making pulp of fibrous cellulosic material		Free		35%
8439.20.00	10 90	Newl Used or rebuiltl Machinery for making paper or paperboardl	No.	Free		35%
8439.30.00	10 90 00	New	No.	2%	Free (A	,CA,E,IL,J) 35%
8439.91		Parts:  Of machinery for making pulp of fibrous cellulosic materials:			(	,, -,,
8439.91.10	00	Bed plates, roll bars and other stock-treating parts	х	4.7%	Free (A	,CA,E,IL,J) 20%
8439.91.90 8439.99	00	Other:	х	Free		35%
8439.99.10	00	Of machinery for making paper or paperboard	X	Free		35%
8439.99.50	00	Of machinery for finishing paper or paperboard	X	3%	Free (A	,CA,E,IL,J) 35%
8440		Bookbinding machinery, including book-sewing machines, and parts thereof:				
8440.10.00 8440.90.00	00	MachineryParts		3.7% 3.7%		,CA,E,IL,J) 25% ,CA,E,IL,J) 25%
8441		Other machinery for making up paper pulp, paper or paperboard, including cutting machines of all kinds, and parts thereof:				
8441.10.00 8441.20.00 8441.30.00	0 0 0 0 0 0	Cutting machines		2% 2%		,CA,E,IL,J) 35%,CA,E,IL,J) 35%
		tubes, drums or similar containers, other than by molding	No	2%	Free (A	,CA,E,IL,J) 35%
8441.40.00	00	Machines for molding articles in paper pulp, paper or paperboard	No	2%	Free (A	,CA,E,IL,J) 35%
8441.80.00 8441.90.00	00	Other machinery		2% 3%		,CA,E,IL,J) 35% ,CA,E,IL,J) 35%

8442		Machinery, apparatus and equipment (other than the machine tools of headings 8456 to 8465), for type-founding or typesetting, for preparing or making printing blocks, plates, cylinders or other printing components; printing type, blocks, plates, cylinders and other printing components; blocks, plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished); parts thereof:			
8442.10.00 8442.20.00	00	Phototypesetting and composing machines  Machinery, apparatus and equipment for typesetting or composing by other			Free
		processes, with or without founding device	No	Free	Free
8442.30.00 8442.40.00	00	Other machinery, apparatus and equipment Parts of the foregoing machinery, apparatus	No	Free	Free
		or equipment	X	Free	Free
8442.50		Printing type, blocks, plates, cylinders and other printing components; blocks, plates, cylinders and lithographic stones, prepared for printing purposes (for example, planed, grained or polished):			
8442.50.10	10	Plates		Free	25%
	90	Other			_
8442.50.90	10	Other Planed, grained, polished or otherwise prepared for		8*	Free (A,CA,E,IL,J) 60%
		engraving or impressing	No.		
	90	Other	No.		

8443		Printing machinery; machines for uses ancillary to printing; parts thereof:  Offset printing machinery:				
8443.11.00	00	Reel-fed	No	3.3%	Free	(A,CA,E,IL,J) 25%
8443.12.00	00	Sheet-fed, office type (sheet size not exceeding 22 x 36 cm)	No	3.3%	Free	(A,CA,E,IL,J) 25%
8443.19		Other:				
8443.19.10	00	Weighing 900 kg or less	No	3.3%	Free	(A,CA,E,IL,J) 25%
8443.19.50	00	Weighing more than 900 kg but less			_	(
		than 1,600 kg	No	3.3%	Free	(A,CA,E,IL,J) 25%
8443.19.90	00	Weighing 1,600 kg or more	No	2.4%	Free	(A,CA,E,IL,J) 25%
		Letterpress printing machinery, excluding flexographic printing:				
8443.21.00	0.0	Reel-fed	No	3.3%	Free	(A,CA,E,IL,J) 25%
8443.29.00	0.0	Other		3.3%		(A, CA, E, IL, J) 25%
8443.30.00	0.0	Flexographic printing machinery		3.3%		(A, CA, E, IL, J) 25%
8443.40.00	0.0	Gravure printing machinery		3.3%		(A, CA, E, IL, J) 25%
8443.50		Other printing machinery:				
8443.50.10	00	Textile printing machinery	X	5.1%	Free	(A,CA,E,IL,J) 40%
8443.50.50	00	Other	X	3.3%	Free	(A,CA,E,IL,J) 25%
8443.60.00	00	Machines for uses ancillary to printing	X	3.3%	Free	(A,CA,E,IL,J) 25%
8443.90		Parts:				
8443.90.10	00	Of textile printing machinery				(A,CA,E,IL,J) 40%
8443.90.50	00	Other	X	3.3%	Free	(A,CA,E,IL,J) 25%

8444.00.00	10 90	Machines for extruding, drawing, texturing or cutting man-made textile materials	No.	4.5% <u>1</u> /	Free	(A,CA,E,IL,J) 40%
8445		Machines for preparing textile fibers; spinning, doubling or twisting machines and other machinery for producing textile yarns; textile reeling or winding (including weft winding) machines and machines for preparing textile yarns for use on the machines of heading 8446 or 8447:  Machines for preparing textile fibers:				
8445.11.00	0.0	Carding machines	No	4.2% 2/	Free	(A,CA,E,IL,J) 40%
8445.12.00	0.0	Combing machines		4.2%		(A,CA,E,IL,J) 40%
8445.13.00	0.0	Drawing or roving machines		4.2%		(A,CA,E,IL,J) 40%
8445.19.00		Other		4.2%	Free	(A,CA,E,IL,J) 40%
	40	Cotton gins	No.			
	80	Other	No.			
8445.20.00	00	Textile spinning machines	No	4.2% <u>2</u> /	Free	(A,CA,E,IL,J) 40%
8445.30.00		Textile doubling or twisting machines		4.2%	Free	(A,CA,E,IL,J) 40%
	10	Textile twisting machines				
	90	Other	No.			
8445.40.00	0 0	Textile winding (including weft winding) or				
		reeling machines				(A,CA,E,IL,J) 40%
8445.90.00	00	Other	No	4.7%	Free	(A,CA,E,IL,J) 40%
8446		Weaving machines (looms):				
8446.10.00		For weaving fabrics of a width not exceeding				
		30 cm		4.7% 3/	Free	(A,CA,E,IL,J) 40%
	10	Power looms				
	90	Other	No.			
		For weaving fabrics of a width exceeding 30				
		cm, shuttle type:				
8446.21.00	00	Power looms	No	4.7%	Free	(A,CA,E,IL,J) 40%
8446.29.00	0 0	Other	No	4.7%	Free	(A,CA,E,IL,J) 40%
8446.30.00		For weaving fabrics of a width exceeding 30				
		cm, shuttleless type		4.7%	Free	(A,CA,E,IL,J) 40%
	10	Rapier type				
	30	Jet type				
	90	Other	No.			

 $<sup>\</sup>frac{1}{2}$ / See heading 9902.84.44.  $\frac{2}{3}$ / See heading 9902.84.45.  $\frac{3}{2}$ / See heading 9902.84.42.

8447		Knitting machines, stitch-bonding machines and machines for making gimped yarn, tulle, lace, embroidery, trimmings, braid or net and machines for tufting:  Circular knitting machines:				
8447.11		With cylinder diameter not exceeding				
8447.11.10 8447.11.90	00 10 20 90	For knitting hosiery	No.			(A,CA,E,IL,J) 40% (A,CA,E,IL,J) 40%
8447.12.10 8447.12.90	00 10 20 90	For knitting hosieryOther Open-top cylinder machines Cylinder and dial machines Other	No.			(A,CA,E,IL,J) 40% (A,CA,E,IL,J) 40%
8447.20		Flat knitting machines; stitch-bonding machines:				
8447.20.10 8447.20.40 8447.20.60 8447.90	00 00 00	V-bed flat knitting machines  Warp knitting machines Other:	No	Free		(A,CA,E,IL,J) 40% 40% (A,CA,E,IL,J) 40%
8447.90.10 8447.90.50 8447.90.90	0 0 0 0 0 0	Braiding and lace-braiding machines Embroidery machines Other	No	4.2%	Free	(A,CA,E,IL,J) 40% (A,CA,E,IL,J) 30% (A,CA,E,IL,J) 40%

 $<sup>\</sup>underline{1}/$  See headings 9902.84.47, 9902.84.48 and 9902.84.49.  $\underline{2}/$  See heading 9902.84.50.

8448		Auxiliary machinery for use with machines of heading 8444, 8445, 8446 or 8447 (for example, dobbies, Jacquards, automatic stop motions and shuttle changing mechanisms); parts and					
		accessories suitable for use solely or principally with the machines of this heading					
		or of heading 8444, 8445, 8446 or 8447 (for					
		example, spindles and spindle flyers, card					
		clothing, combs, extruding nipples, shuttles, healds and heald-frames, hosiery needles):					
		Auxiliary machinery for machines of					
0440 11 00	0.0	heading 8444, 8445, 8446 or 8447:					
8448.11.00	00	Dobbies and Jacquards; card reducing, copying, punching or assembling					
		machines for use therewith	х	4.7% <u>1/2</u> /	Free	(A,CA,E,IL,J	) 40%
8448.19.00	00	Othor	v	4 79 1/	Exac	(A CA E TI T	\ 40%
8448.20	00	Other  Parts and accessories of machines of heading	Λ	4./% <u>1</u> /	rree	(A,CA,E,IL,J)	) 40%
		8444 or of their auxiliary machinery:					
8448.20.10	00	Of machines for extruding or drawing	37	4 70.		/	\ 400
		man-made textile filaments	Α	4.7%	rree	(A,CA,E,IL,J	) 40%
8448.20.50		Other		4.2%	Free	(A,CA,E,IL,J	) 40%
	10 90	Of texturing machines Other					
	90	Parts and accessories of machines of heading	Α				
		8445 or of their auxiliary machinery:					
8448.31.00 8448.32.00	00	Card clothing Of machines for preparing textile	m²	6.6%	Free	(A,CA,E,IL,J	) 45%
0440.52.00		fibers, other than card clothing		4.2%	Free	(A,CA,E,IL,J	) 40%
	10	Of cotton gins	X				
8448.33.00	90 00	OtherSpindles, spindle flyers, spinning rings	X				
0440.33.00	00	and ring travellers	X	4.2%	Free	(A,CA,E,IL,J	) 40%
8448.39 8448.39.10	00	Other: Parts of spinning, doubling or					
0110.00.10	0.0	twisting machines	х	4.2%	Free	(A,CA,E,IL,J	) 40%
8448.39.50	0.0	Parts of winding or reeling					
0440.39.50	00	machines	х	4.7%	Free	(A,CA,E,IL,J	) 40%
8448.39.90	00	Other Parts and accessories of weaving machines	X	4.7%	Free	(A,CA,E,IL,J	) 40%
		(looms) or of their auxiliary machinery:					
8448.41.00	00	Shuttles	Х	4.7%	Free	(A,CA,E,IL,J	) 40%
8448.42.00	00	Reeds for looms, healds and heald- frames	x	4.7%	Free	(A,CA,E,IL,J	) 40%
		TTUMOS	21	1.70	1100	(11, 611, 11, 111, 0	, 100
8448.49.00	00	Other	X	4.7% <u>2</u> /	Free	(A,CA,E,IL,J	) 40%
		Parts and accessories of machines of heading 8447 or of their auxiliary machinery:					
8448.51		Sinkers, needles and other articles used					
		in forming stitches:					
8448.51.10	0.0	Needles for knitting machines:  Latch needles	thousand	10% 3/	Free	(A,CA,E,IL,J	) \$2/1.000
				_			+ 60%
8448.51.20	00	Spring-beard needles	thousand	19¢/1,000 + 6.4%	Free	(CA,E,IL,J)	\$1.50/ 1,000 +
				0.40			50%
8448.51.30	00	Other	thousand		Free	(CA,E,IL,J)	\$1.15/
				8.2% <u>3</u> /			1,000 + 40%
8448.51.50	00	Other	X	4.4%	Free	(A,CA,E,IL,J	
8448.59	0.0	Other:	37	4 70 4/	П	(A CA E TT T	\ 400
8448.59.10 8448.59.50	00	Parts of knitting machines Other				(A,CA,E,IL,J (A,CA,E,IL,J	
				· · -/		. , . , _ , _ , _ , _ ,	

 $<sup>\</sup>frac{1}{2}/$  See headings 9902.84.48, 9902.84.49 and 9902.84.50.  $\frac{2}{2}/$  See heading 9902.84.51.  $\frac{3}{4}/$  See headings 9902.84.51.  $\frac{4}{5}/$  See headings 9902.84.47, 9902.84.48, and 9902.84.49.

8449.00		Machinery for the manufacture or finishing of felt or nonwovens in the piece or in shapes, including machinery for making felt hats; blocks for making hats; parts thereof:					
8449.00.10 8449.00.50	0 0 0 0	Finishing machinery and parts thereof Other				(A,CA,E,IL,J) 4 (A,CA,E,IL,J) 4	
8450		Household- or laundry-type washing machines, including machines which both wash and dry; parts thereof:  Machines, each of a dry linen capacity not exceeding 10 kg:					
8450.11.00		Fully automatic machines		2.8%		(A,E,IL,J) (CA)	35%
	10	Coin operated Other: Top Loading					
	80	Other					
8450.12.00	00	Other machines with built-in centrifugal dryer	No	5.1%		(A,E,IL,J) (CA)	40%
8450.19.00	00	Other	No	2.8%	Free		35%
8450.20.00		Machines, each of a dry linen capacity exceeding 10 kg		2.8%		(, -,, - , - ,	35%
	10	Coin operated			1.4%	(CA)	
8450.90.00	90 00	OtherParts		5.1%		(A,E,IL,J) (CA) <u>1</u> /	40%
8451		Machinery (other than machines of heading 8450) for washing, cleaning, wringing, drying, ironing, pressing (including fusing presses), bleaching, dyeing, dressing, finishing, coating or impregnating textile yarns, fabrics or made up textile articles and machines for applying the paste to the base fabric or other support used in the manufacture of floor coverings such as linoleum; machines for reeling, unreeling, folding, cutting or pinking textile fabrics; parts thereof:					
8451.10.00	00	Dry-cleaning machines Drying machines:	No	3.9%	Free	(A,CA,E,IL,J) 3	35%
8451.21.00		Each of a dry linen capacity not exceeding 10 kg		5.1%	Free	(A,E,IL,J) (CA)	40%
	10 90	Coin operatedOther				( /	
8451.29.00	,	Other		5.1%		(A,E,IL,J) (CA)	40%
	10 90	For drying made up articles				( /	
8451.30.00	00	Ironing machines and presses (including fusing presses)		3.9%	Free	(A,CA,E,IL,J)	35%
8451.40.00	00	Washing, bleaching or dyeing machines	No	5.1%	Free	(A,CA,E,IL,J)	40%
8451.50.00	00	Machines for reeling, unreeling, folding, cutting or pinking textile fabrics	No	4.4%	Free	(A,CA,E,IL,J)	40%
8451.80.00	00	Other machinery				(A,CA,E,IL,J)	
8451.90.00	10	Parts  Of machines for washing, dry-cleaning, ironing, pressing or drying made up textile articles or of other household or laundry type machines		5.1%	Free	(A,CA,E,IL,J) 4	40%
		Other:					
	20	Of machines for bleaching, dyeing, washing or cleaning	х				
	90	Other	X				

 $<sup>\</sup>underline{1}$ / See subheading 9905.84.31.

8452		Sewing machines, other than book-sewing machines of heading 8440; furniture, bases and covers specially designed for sewing machines; sewing machine needles; parts thereof:				
8452.10.00	10 90	Sewing machines of the household type  Valued not over \$20 each  Other  Other sewing machines:	No.	3.7%	Free (A,CA,E,IL,	J) 30%
8452.21		Automatic units:				
8452.21.10	00	Specially designed to join footwear soles to uppers	No	Free		Free
8452.21.90 8452.29	00	Other:	No	2.5%	Free (A,CA,E,IL,	J) 30%
8452.29.10	00	Specially designed to join				
		footwear soles to uppers	No	Free		Free
8452.29.90	0.0	Other	No	2.5%	Free (A,CA,E,IL,	.T) 30%
8452.30.00	0.0	Sewing machine needles		6%	Free (A, CA, E, IL,	
8452.40.00	0 0	Furniture, bases and covers for sewing				
		machines, and parts thereof	X	2.5%	Free (A,CA,E,IL,	J) 20%
8452.90.00	10 90	Other parts of sewing machinesOf household machinesOther.	X	2.5%	Free (A,CA,E,IL,	J) 30%
8453		Machinery for preparing, tanning or working hides, skins or leather or for making or repairing footwear or other articles of hides, skins or leather, other than sewing machines; parts thereof:				
8453.10.00	0.0	Machinery for preparing, tanning or working				
		hides, skins or leather	No	3.7%	Free (A,CA,E,IL,	J) 35%
8453.20.00	00	Machinery for making or repairing footwear		Free		Free
8453.80.00	00	Other machinery	No	3.7%	Free (A,CA,E,IL,	J) 35%
8453.90 8453.90.10	0.0	Parts: Of machinery for making or repairing				
0433.30.10	0.0	footwear	X	Free		Free
8453.90.50	00	Other	X	3.7%	Free (A,CA,E,IL,	J) 35%